



STATION FOUNDATIONS PLANS

FILE’S CONSTITUTION :

I) STATION’S FOUNDATION

- Formwork plans
- Reinforcement plans
- Steel parts list
- Anchor assembly detailed plans
- Case of buried security line : Laying / Setting sheaths plan : PFE011636

II) IMPLEMENTATION :

- According to the PTK 981124

III) MATERIAL :

Unless specific otherwise on plans : The minimum following values

A) CONCRETE

- Environment Class : XF3 (severe frost without icing agent)
- Class of compressive strength : C30/37 MPa according NF EN 206–1

B) STEEL

- HA B400 B (High grip, yield strength 400MPa) according to NF A 35–080–1

IV) EARTHING :

- For UNIFIX station : PFE015025
- For detachable station : PFE024841

DEVICE NAME AT15 MUXADZE
NAME OF THE STATION CHIATURA
COUNTRY GEORGIA
BUSINESS NUMBER 30018

DOC 120402
Indice : 01

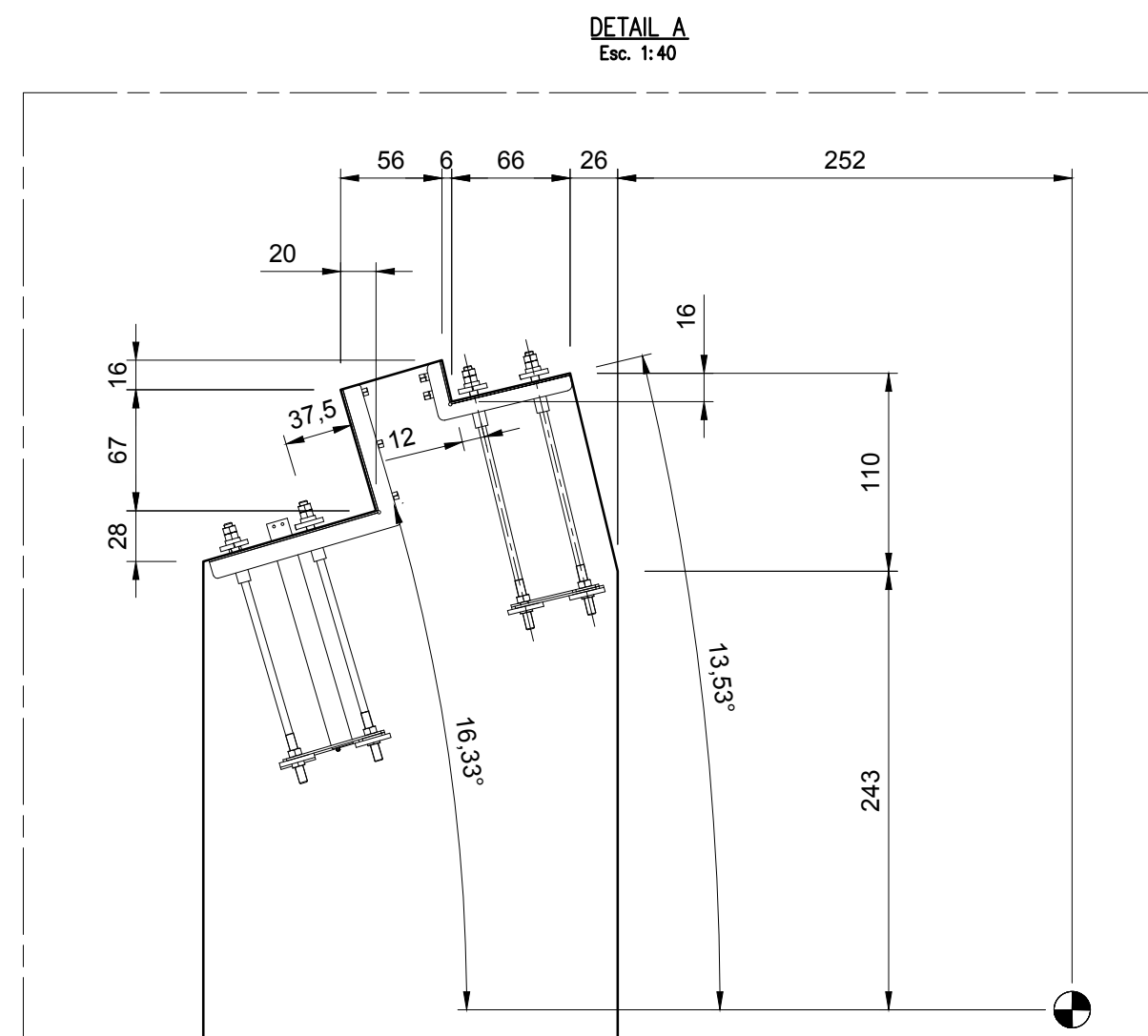
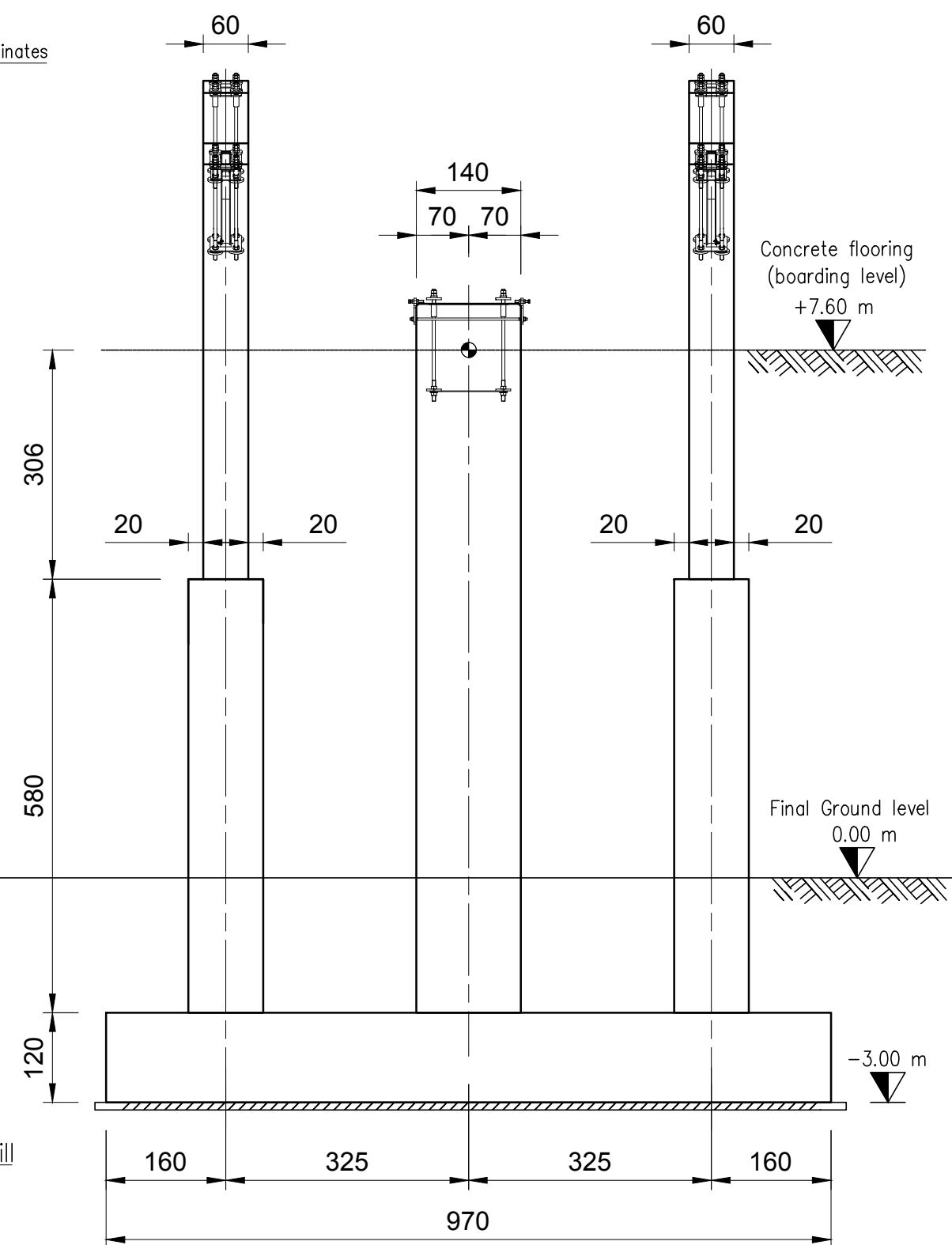
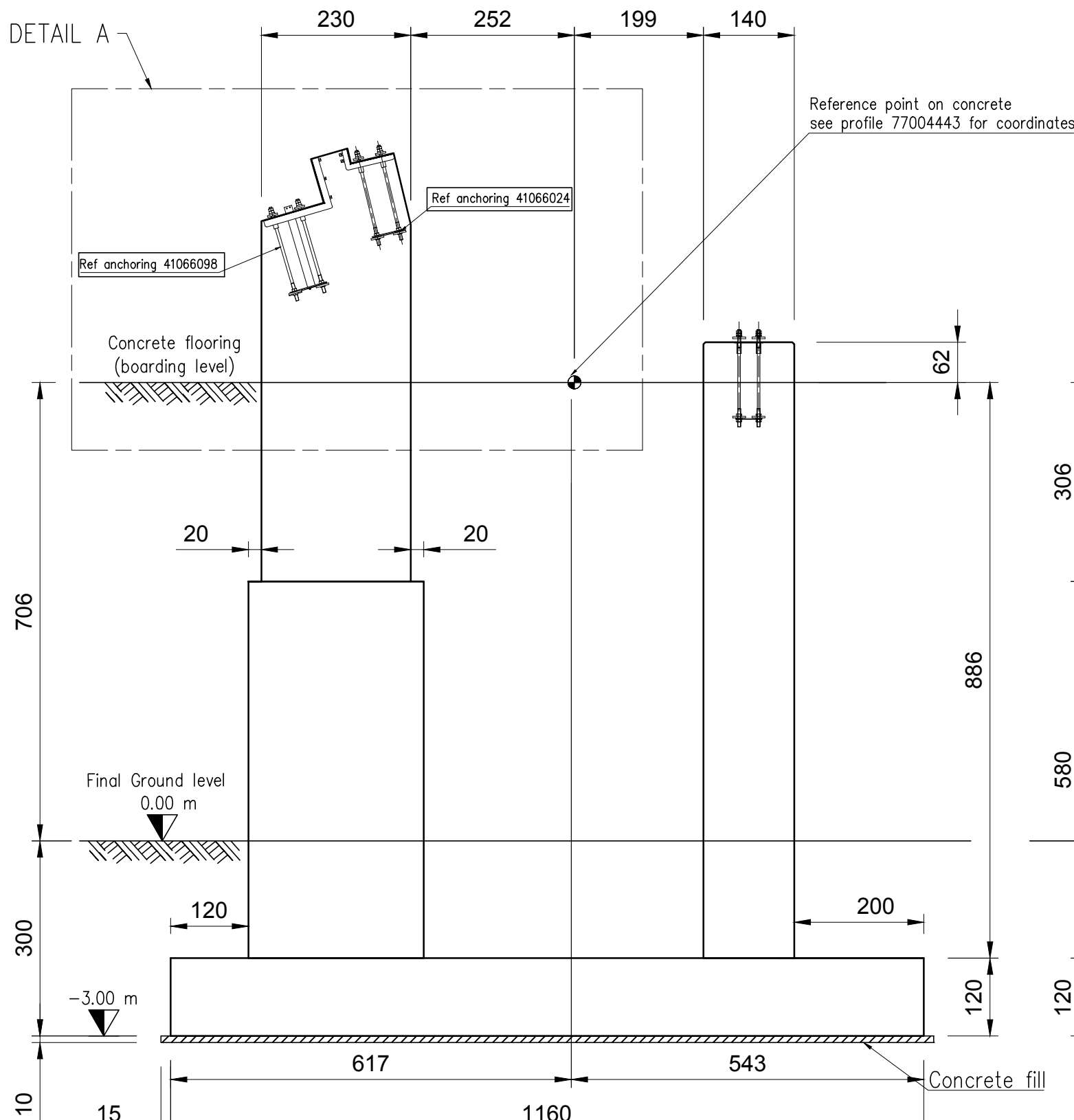
CONTENTS AND REFERENCES :

G2

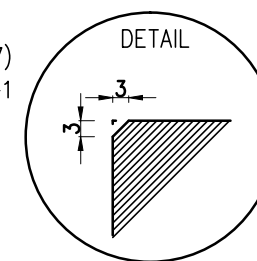
IMPLEMENTATION / FORMWORK : 77013177G2_C
REINFORCEMENT SOLE : 77013177G2_F1_02
REINFORCEMENT P1 : 77013177G2_F2
REINFORCEMENT P2 : 77013177G2_F3

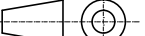
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			MODIFICATIONS IN 77013177_G2_F1		FERRIER		24/01/17		01		
NSP	1	Bibliothèque CAO BETONS :		NATURE DE LA MODIFICATION			MODIFIE PAR		DATE	IND	
ELEMENT				FILE OF PLANS				RESPONSABLE DESSIN FERRIER		ECHELLE :	DATE 19/08/16
S/ENSEMBLE				G2 STATION FOUNDATION				VERIFIE PAR LARDANT		MASSE :	CODE CLASSE :
ENSEMBLE				AT15 MUXADZE				VISA METHODES :		REF.ORIGINE :	DUPLICATA N° :
				Cahier des charges :		FORMAT A3	77013177				

MUXADZE G2 STATION



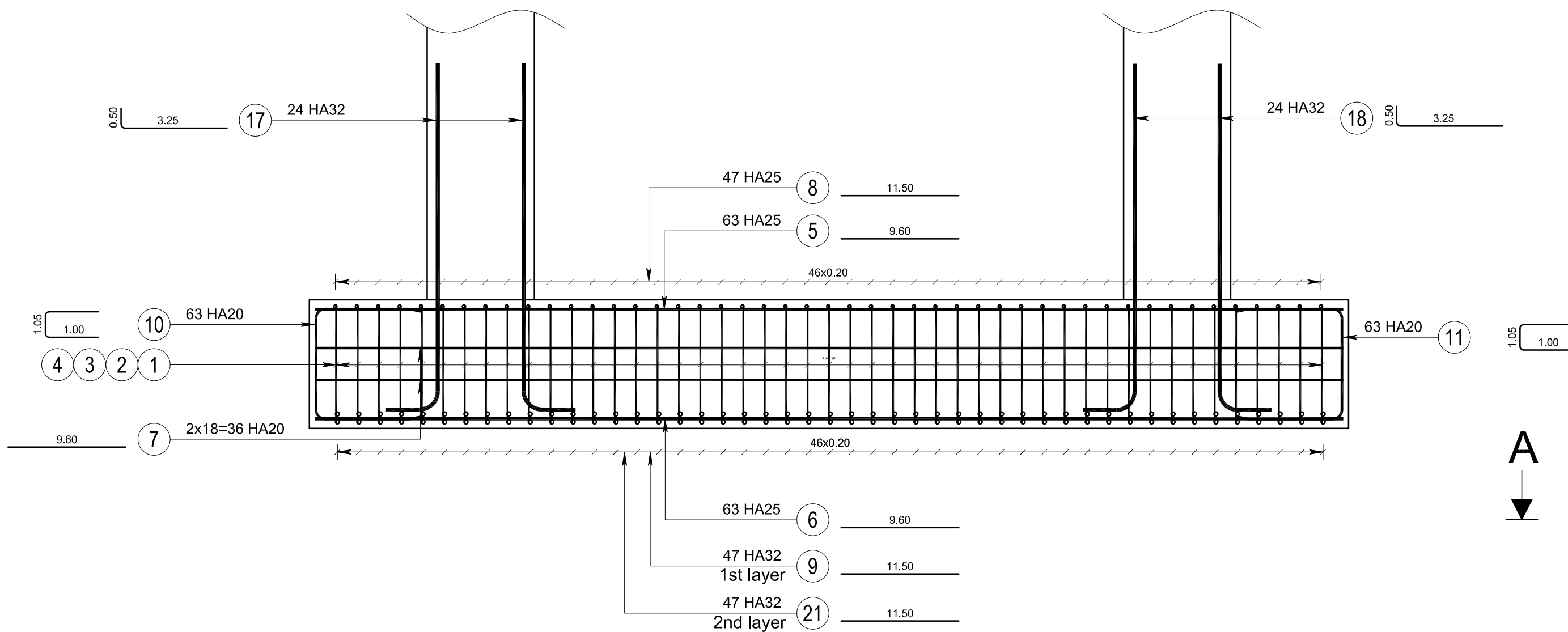
Quantitative (m3):	Steel	FeE400 MPa
Sole :	Concrete :	fck = 30 MPa (C30/37)
Pole P2 :	Standard specification	NF EN 206-1
Pole P1 :	Carrying out	PTK9811-24
	Concrete exposure class :	XF3
Total	Covering/Coating	5 cm
	Dimensionning in	cm



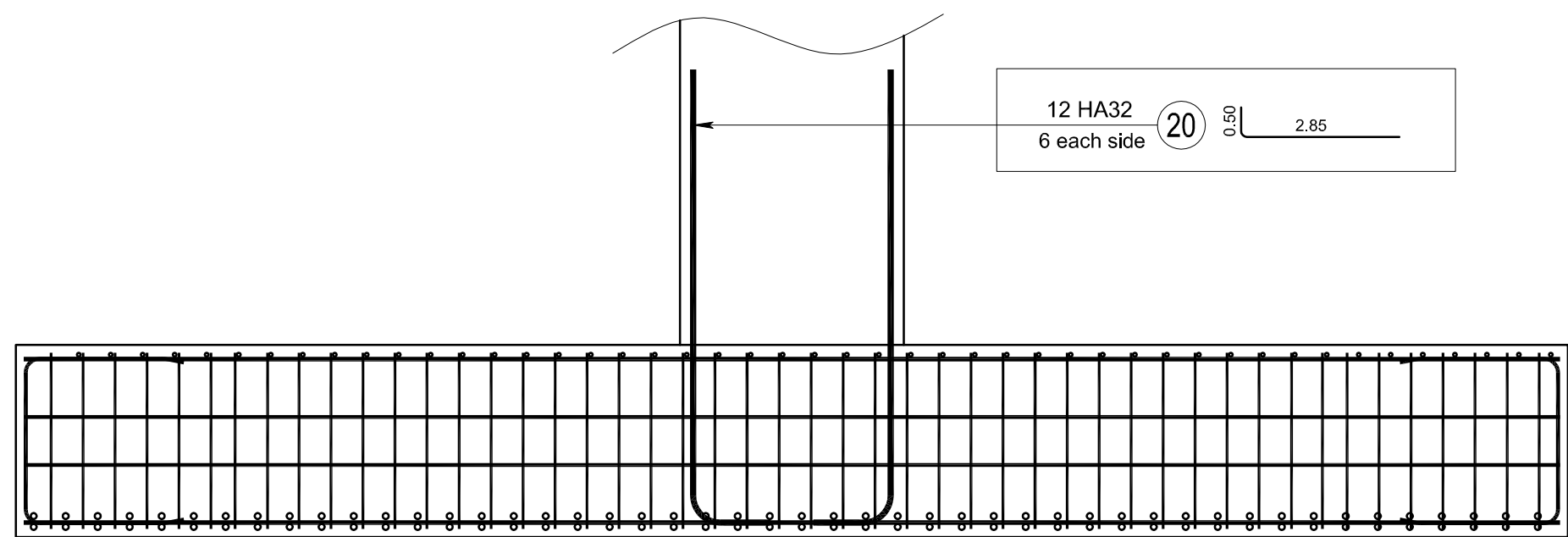
SPEC.									
CABLE WAY		30018--AT15 MUXADZE--CHIATURA				ORDER / COMMANDE		DATE / DATE	
INSTALLATION A CABLE								PIECE / PIECE	
DESCRIPTION		30018 -- FILE OF PLANS G2 -- CONCRETE OF STATION							
DESCRIPTION		30018 -- DOSSIER DE PLANS G2 -- BETON DE GARE							
DIMENSION-1		SPECIFICATION-1				SPECIFICATION-5			
LAYOUT						AT15 MUXADZE			
		FORMAT / FORMAT A2		DATE / DATE 19/08/2016		DESIGNED BY / DESSINE PAR FERRIER Kévin		SCALE / ECHELLE 	
						WEIGHT / MASSE 0.00 Kg		REF. ITEM NR. / REF. ARTICLE 	
		EXECUTION / EXECUTION 		CHECKED BY / CONTRÔLE PAR LANIER Damien		ITEM NUMBER ARTICLE NUMERO 77013177G2_C			
		SECURITY LEVEL / NIVEAU DE SECURITE -		GENERAL TOLERANCES / TOLERANCES GENERALES -					
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SOLE G2 MUXADZE REINFORCEMENT

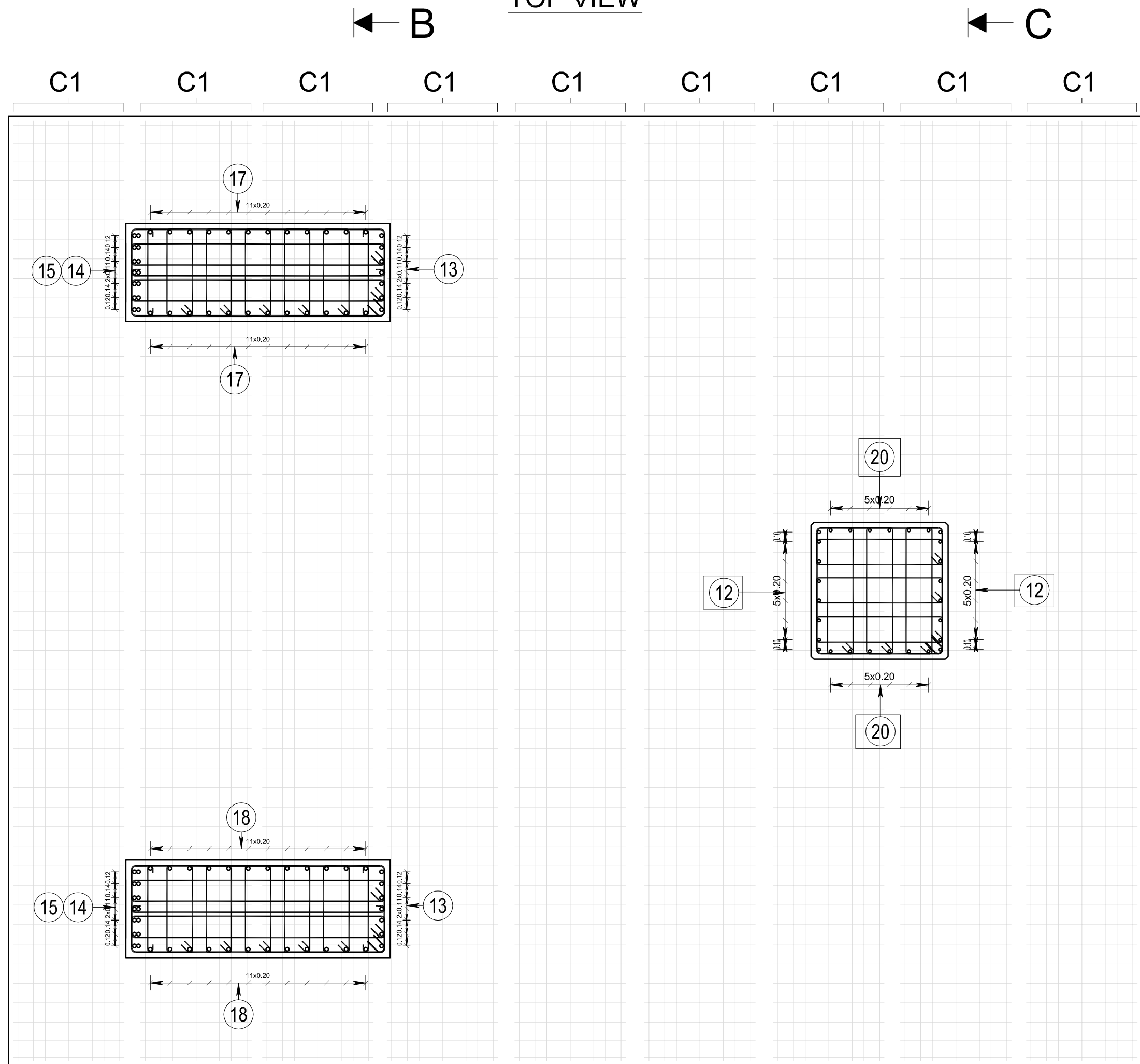
SECTION B-B



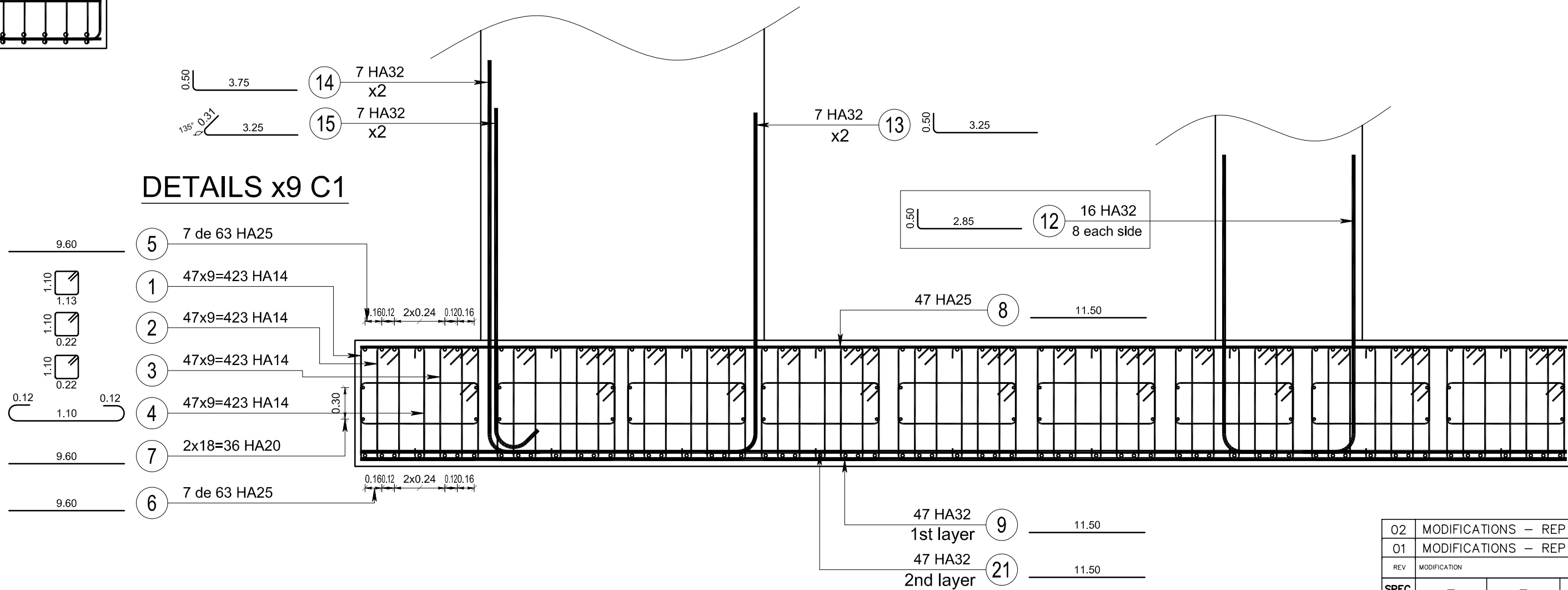
SECTION C-C



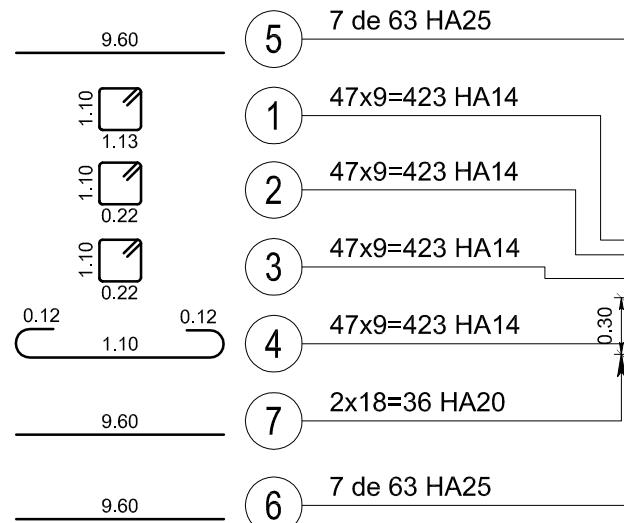
TOP VIEW



SECTION A-A



DETAILS x9 C1



Concrete :	Reinforcement :
- Concrete : fck = 30 MPa (C30/37)	- Steel : HA500 Mpa
- Standard specification NF EN 206-1	- Total weight : 24.1 T
- Coating 5 cm	Ratio :
- Volume : 135.02 m3	- 178 kg / m3

BENDING SCHEDULE											
N°	TYPE	Ø	Nombre			Esp	Long. Unitaire	Façonage	Marché	Long. TOTALE	Unité
1	HA	14	423	1	423	0.20	4.74	1/1	7.0	2005.02	
2	HA	14	423	1	423	0.20	2.92	1/1	7.0	1235.16	
3	HA	14	423	1	423	0.20	2.92	1/1	7.0	1235.16	
4	HA	14	423	1	423	0.20	1.41	1/1	7.0	596.43	
5	HA	25	63	1	63		9.60	1/1		604.80	
6	HA	25	63	1	63		9.60	1/1		604.80	
7	HA	20	36	1	36	0.30	9.60	1/1		345.60	
8	HA	25	47	1	47		11.50	1/1		540.50	
9	HA	32	47	1	47		11.50	1/1		540.50	
10	HA	20	63	1	63		2.93	1/1	15.0	184.59	
11	HA	20	63	1	63		2.93	1/1	15.0	184.59	
12	HA	32	16	1	16		3.24	1/1	30.0	51.84	
13	HA	32	7	2	14		3.64	1/1	30.0	50.96	
14	HA	32	7	2	14		4.14	1/1	30.0	57.96	
15	HA	32	7	2	14		3.58	1/1	30.0	50.12	
17	HA	32	24	1	24		3.64	1/1	30.0	87.36	
18	HA	32	24	1	24		3.64	1/1	30.0	87.36	
20	HA	32	12	1	12		3.24	1/1	30.0	38.88	
21	HA	32	47	1	47		11.50	1/1		540.50	
* : LONGUEUR MOYENNE										Diamètre moyen : 20.8	

STEEL RECAP											
DIAMETRE	HA6	HA8	HA10	HA12	HA14	HA16	HA20	HA25	HA32	HA40	HA-
MASSE (kg/m)	0.222	0.395	0.617	0.888	1.208	1.578	2.466	3.854	6.313	9.864	-
LONG. (m)	-	-	-	-	5071.8	-	714.8	1750.1	1505.5	-	-
MASSE (kg)	-	-	-	-	6126.7	-	1762.6	6744.9	9504.1	-	-
Diamètre moyen : 20.8 mm										Masse totale : 24138.3 kg	

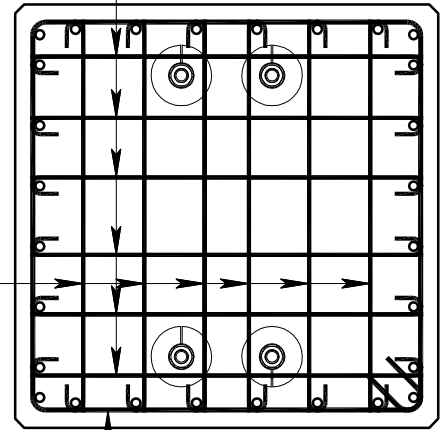
02	MODIFICATIONS – REP 12 and 20 from HA25 to HA32	10/04/17	FERRIER	LARDANT
01	MODIFICATIONS – REP 13, 14, 15, 17 and 18	24/01/17	FERRIER	LARDANT
REV	MODIFICATION	DATE	REV BY	CHECKED BY
SPEC.	-	-	-	-
CABLE WAY	AT15 MUXADZE CHIATURA	ORDER / COMMANDE	DATE / DATE	PIECE / PIÈCE
TRANSPORT PAR CABLE				
DESCRIPTION	REINFORCEMENT DRAWING SOLE G2			
DESCRIPTION	PLAN DE FERRAILLAGE SEMELLE G2			
DIMENSION-1	SPECIFICATION-1	SPECIFICATION-2	SPECIFICATION-3	
-	-	-	-	
DATE / DATE	22/08/16	DESIGNED BY / DÉSIGNÉ PAR	FERRIER	SCALE / ÉCHELLE
SECURITY LEVEL / NIVEAU DE SÉCURITÉ	-	CHECKED BY / CONTRÔLÉ PAR	LARDANT	MODIFY / MODIF
GENERAL TOLERANCES / TOLÉRANCES GÉNÉRALES	-	ITEM NUMBER / ARTICLE NUMÉRO	77013177G2_F1	REF ITEM NR. / REF ARTICLE
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G2-P1 MUXADZE REINFORCEMENT

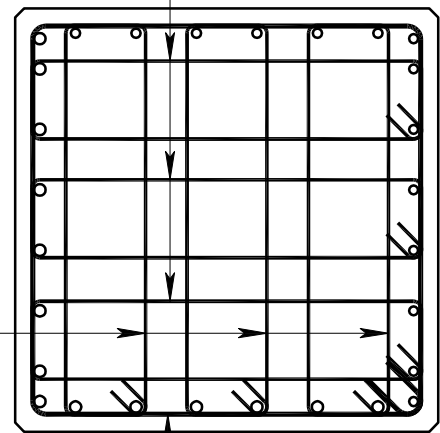
LONGITUDINAL ELEVATION

LINE

SECTION B-B



SECTION A-A



40x0.20

5x0.20

Concrete :
- Concrete : fck = 30 MPa (C30/37)
- Standard specification NF EN 206-1

Reinforcement :
- Steel : HA500 Mpa
- Total weight : 2.79T

- Coating 5 cm
- Volume : 18.59 m3

Ratio :
- 150 kg / m3

BENDING SCHEDULE

N°	TYPE	Ø	Nombre			Esp	Long. Unitaire	Façonnage	Mandrin (cm)	Long. TOTALE	Indices
			Par Elément	d'éléments	Total						
1	HA	32	16	1	16		9.44	9.44		151.0	
2	HA	32	12	1	12		9.44	9.44		113.3	
3	HA	10	123	1	123	0.20	3.34		4.0	410.8	
4	HA	10	123	1	123	0.20	3.33		4.0	409.6	
5	HA	12	96	1	96	0.15	1.41		4.0	135.4	
6	HA	12	96	1	96	0.15	1.41		4.0	135.4	
7	HA	14	41	1	41	0.20	5.47		7.0	224.3	
8	HA	14	8	1	8	0.15	5.47		7.0	43.8	
9	HA	14	12	1	12	0.22	1.74		15.0	20.9	
10	HA	14	12	1	12	0.22	1.74		15.0	20.9	

* : LONGUEUR MOYENNE Diamètre moyen : 16.5

STEEL RECAP

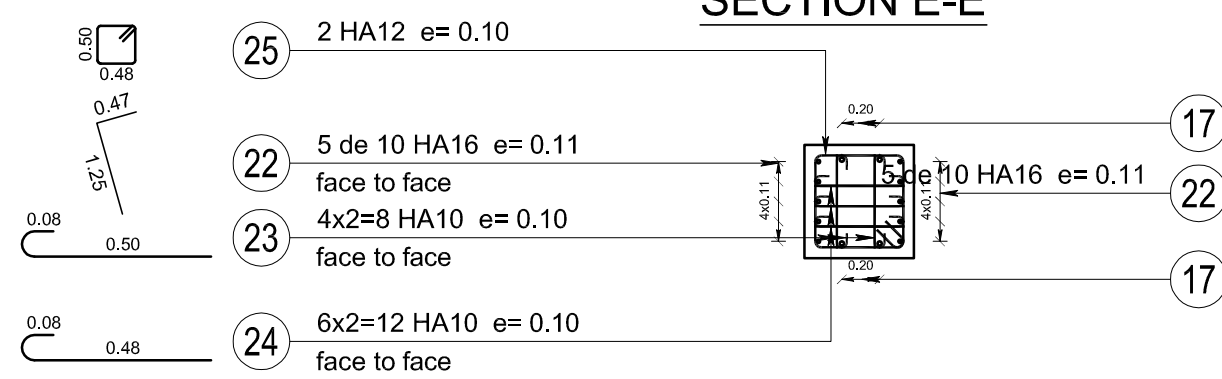
DIAMETRE	HA6	HA8	HA10	HA12	HA14	HA16	HA20	HA25	HA32	HA40	HA-	D.MOY(mm)
MASSE (kg/ml)	0.222	0.395	0.617	0.888	1.208	1.578	2.466	3.854	6.313	9.864	-	16.48
LONG. (m)	-	-	820.4	270.7	309.8	-	-	-	264.3	-	-	TOTAL(kg)
MASSE (Kg)	-	-	506.2	240.4	374.2	-	-	-	1668.7	-	-	2789.5

Diamètre moyen : 16.5 mm Masse totale : 2789.5 kg

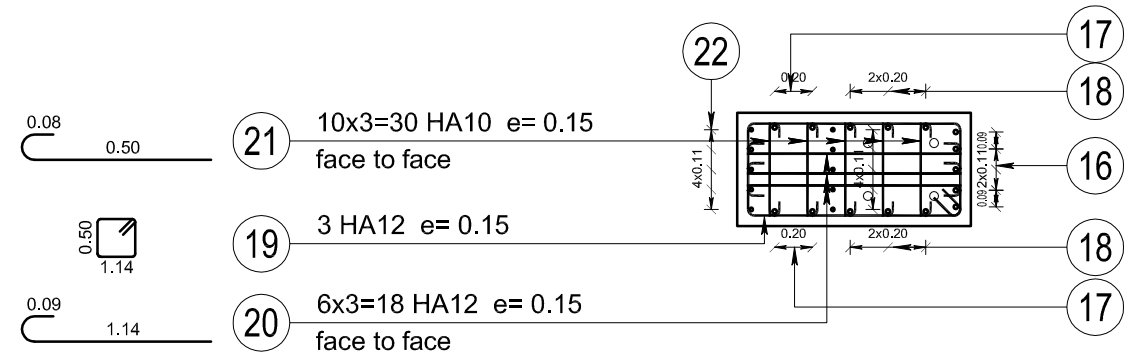
REV	MODIFICATION	DATE	REV BY	CHECKED BY
SPEC.	-	-	-	-
CABLE WAY TRANSPORT PAR CABLE		AT15 MUXADZE CHIATURA		ORDER / COMMANDE
DESCRIPTION		REINFORCEMENT DRAWING P1		DATE / DATE
DESCRIPTION		PLAN DE FERRAILLAGE P1		PIECE / PIECE
DIMENSION-1		SPECIFICATION-1		SPECIFICATION-5
FORMA / FORM		DATE / DATE		SCALE / ECHELLE
A1		22/08/16		1/30
DESIGNED BY / DESIGNED BY		FERRIER		MODIFY / MODIF
CHECKED BY / CHECKED BY		LARDANT		REF-ITEM NR. / REF-ARTICLE
SECURITY LEVEL / NIVEAU DE SECURITE		GENERAL TOLERANCES / TOLERANCES GENERALES		ITEM NUMBER / ARTICLE NUMERO
-		-		77013177G2_F2

G2_P2 MUXADZE REINFORCEMENT

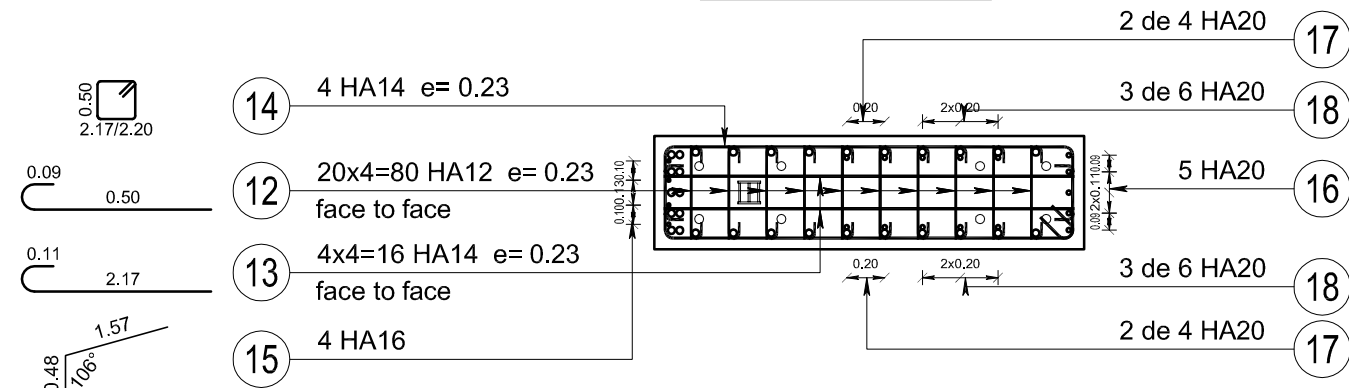
SECTION E-E



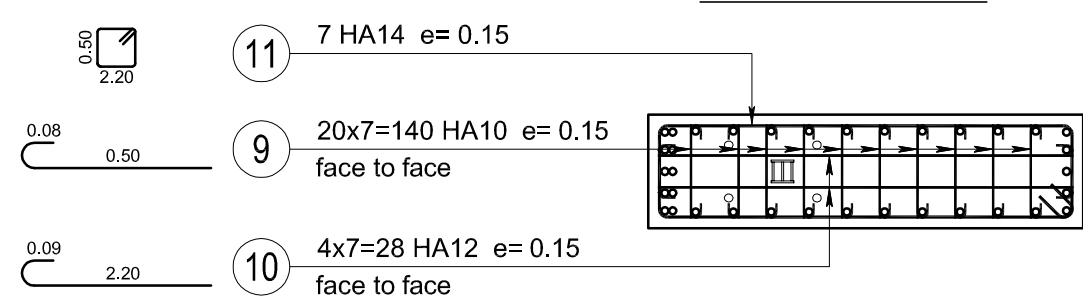
SECTION D-D



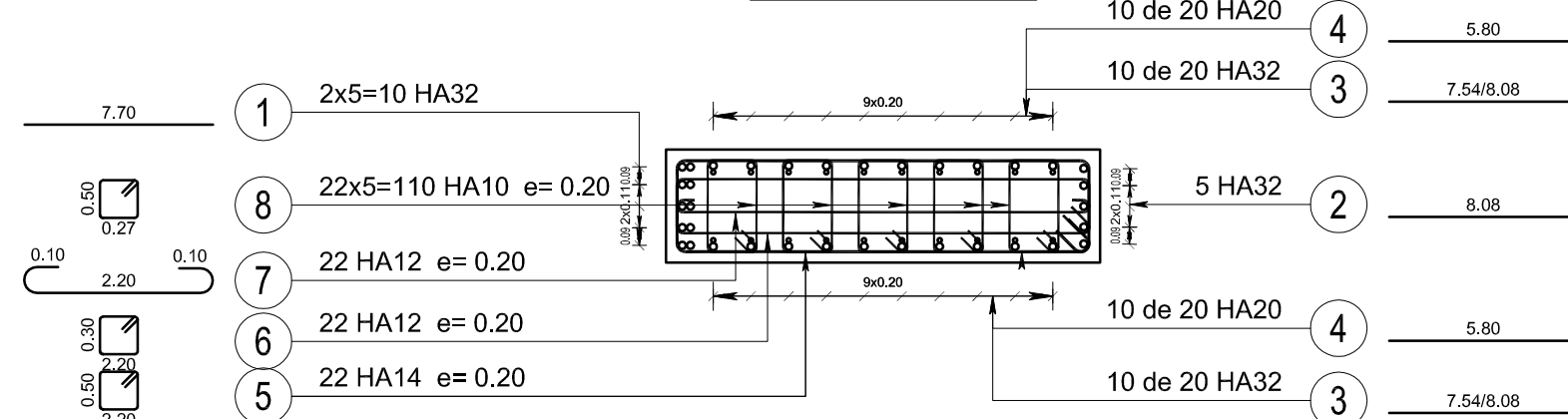
SECTION C-C



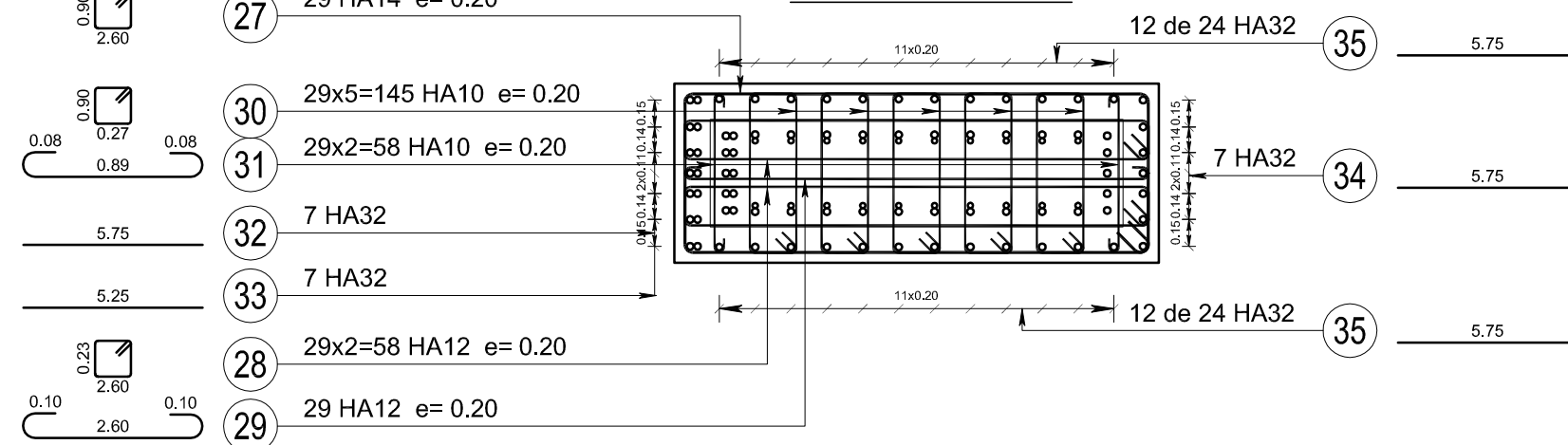
SECTION B-B



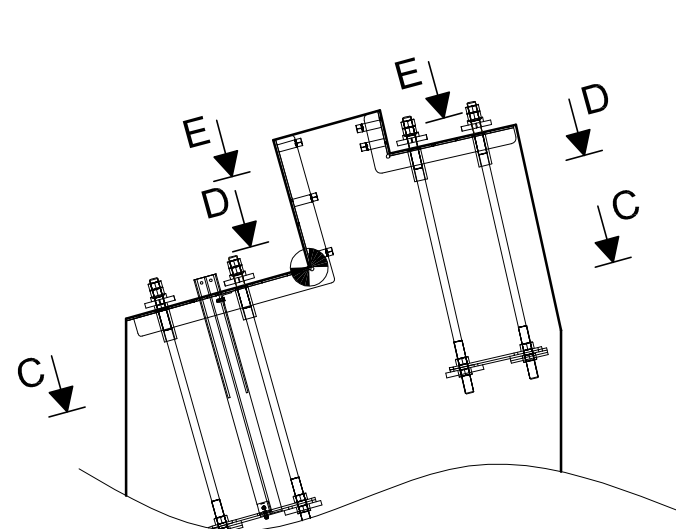
SECTION A-A



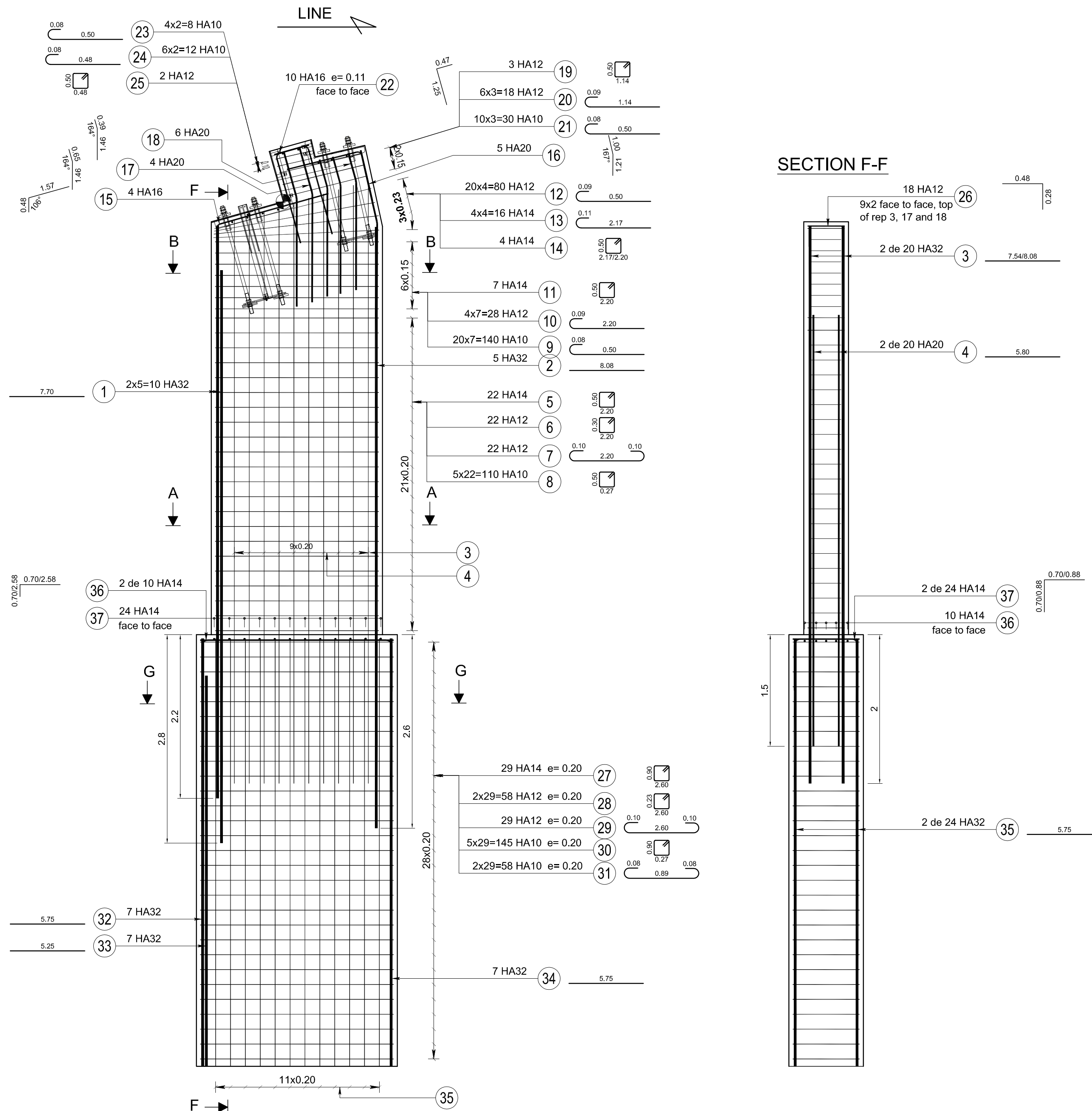
SECTION G-G



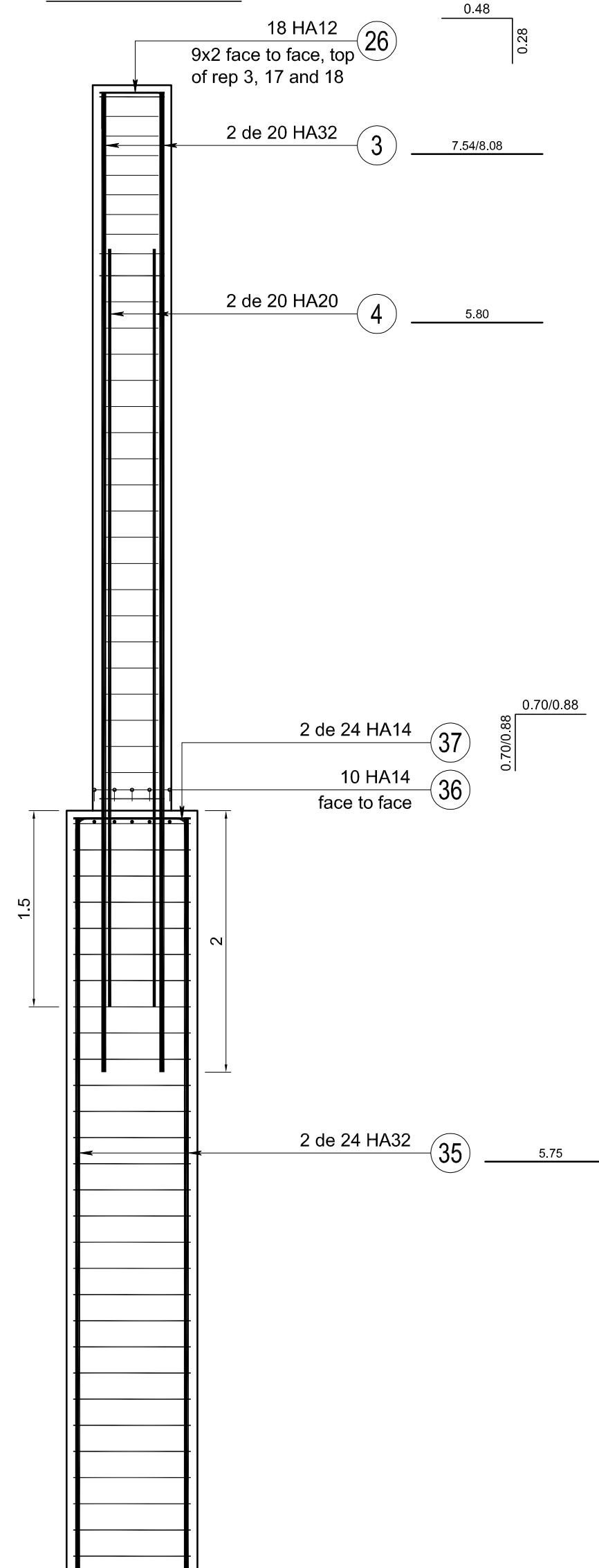
DETAILS SECTIONS



LONGITUDINAL ELEVATION



SECTION F-F



Concrete :	Reinforcement :
- Concrete : fck = 30 MPa (C30/37)	- Steel : HA500 Mpa
- Standard specification NF EN 206-1	- Total weight : 5.47T
- Coating : 5 cm	Ratio :
- Volume : 24.17 m3	- 226 kg / m3

BENDING SCHEDULE

N°	TYPE	Ø	Nombre	Long.	Faonnage	Long.
			Par Elément	Unitaire		TOTALE
1	HA 32	10	1	10	7.70	77.0
2	HA 32	5	1	5	8.08	40.4
3	HA 32	20	1	20	7.81*	156.2
4	HA 20	20	1	20	0.20 5.80	116.0
5	HA 14	22	1	22	0.20 5.67	124.7
6	HA 12	22	1	22	0.20 5.23	115.1
7	HA 12	22	1	22	0.20 2.44	53.7
8	HA 10	110	1	110	0.20 1.73	190.3
9	HA 10	140	1	140	0.15 0.60	84.0
10	HA 12	28	1	28	0.15 2.31	64.7
11	HA 14	7	1	7	0.15 5.67	39.7
12	HA 12	80	1	80	0.23 0.61	48.8
13	HA 14	16	1	16	0.23 2.30	36.8
14	HA 14	4	1	4	0.23 5.65*	22.6
15	HA 16	4	1	4	2.02	8.1
16	HA 20	5	1	5	2.21	11.1
17	HA 20	4	1	4	2.11	8.4
18	HA 20	6	1	6	1.85	11.1
19	HA 12	3	1	3	0.15 3.50	10.5
20	HA 12	18	1	18	0.15 1.25	22.5
21	HA 10	30	1	30	0.15 0.60	18.0
22	HA 16	10	1	10	0.11 1.68	16.8
23	HA 10	8	1	8	0.10 0.60	4.8
24	HA 10	12	1	12	0.10 0.58	7.0
25	HA 12	2	1	2	0.10 2.19	4.4
26	HA 12	18	1	18	0.74	13.3
27	HA 14	29	1	29	0.20 7.27	210.8
28	HA 12	58	1	58	0.20 5.89	341.6
29	HA 12	29	1	29	0.20 2.84	82.4
30	HA 10	145	1	145	0.20 2.53	366.9
31	HA 10	58	1	58	0.20 1.09	63.2
32	HA 32	7	1	7	5.75	40.3
33	HA 32	7	1	7	5.25	36.8
34	HA 32	7	1	7	5.75	40.3
35	HA 32	24	1	24	5.75	138.0
36	HA 14	10	1	10	3.23*	32.3
37	HA 14	24	1	24	1.53*	36.7

* : LONGUEUR MOYENNE Diamètre moyen : 18.1

STEEL RECAP

DIAMETRE	HA6	HA8	HA10	HA12	HA14	HA16	HA20	HA25	HA32	HA40	HA-	D.MOY(mm)
MASSE (kg/m)	0.222	0.395	0.617	0.888	1.208	1.578	2.466	3.854	6.313	9.864	-	18.15
LONG. (m)	-	-	734.1	756.9	503.7	24.9	146.6	-	528.9	-	-	TOTAL(kg)
MASSE (Kg)	-	-	453.0	672.1	608.4	39.3	361.5	-	3338.6	-	-	5472.9
Diamètre moyen : 18.1 mm Masse totale : 5472.9 kg												

REV.	MODIFICATION	DATE	REV. BY	CHECKED BY
SPEC.	-	-	-	-
CABLE WAY	-	-	-	-
TRANSPORT PAR CABLE	-	-	-	-
DESCRIPTION	AT15 MUXADZE CHIATURA			
DESCRIPTION	REINFORCEMENT DRAWING P2			
DESCRIPTION	PLAN DE FERRAILLAGE P2			
DIMENSION-1	DIMENSION-2	DIMENSION-3	DIMENSION-4	DIMENSION-5
-	-	-	-	-
DATE / DATE	22/08/16	DESIGNED BY / DESIGNED PAR	FERRIER	SCALE / ECHELLE
SECURITY LEVEL / NIVEAU DE SECURITE	-	CHECKED BY / CONTRÔLE PAR	LARDANT	MODIFY / MODIF
GENERAL TOLERANCES / TOLERANCES GENERALES	-	ITEM NUMBER / ARTICLE NUMERO	77013177G2_F3	REF. ITEM / REF. ARTICLE
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